

Deep Dive Into System i Access for Web Session 1:

Overview

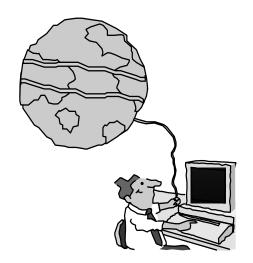
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Linda Hirsch
LLHIRSCH@us.ibm.com
http://www.ibm.com/systems/i/software/access/web



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- What is System i Access for Web?
- Getting started
- Ways to roll out to end users
- Control access to functions





What is System i Access for Web?

End users can leverage business information, applications, and resources across an enterprise by extending the iSeries resources to the client desktop

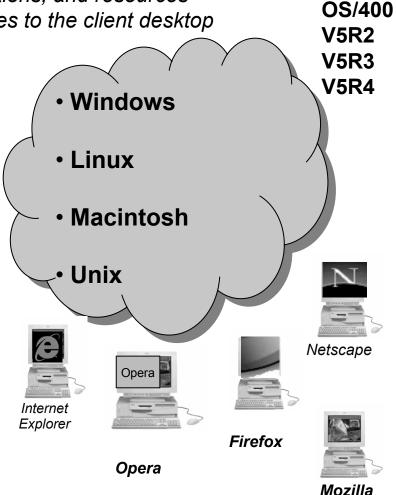
through a web browser

Provides access to iSeries through a browser

- 5250 access
- Access to database, integrated file system, printers, output queues, jobs
- Can run batch commands and send/receive messages

It has the following advantages:

- Is server based
- Requires only a browser on the client, no configuration required at desktop, no applets installed on desktop
- Uses industry standard protocols -HTTP, HTTPS and HTML

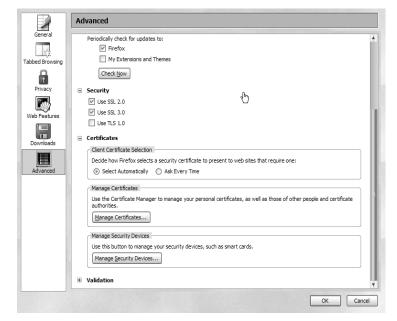




Fully Integrated with your Browser

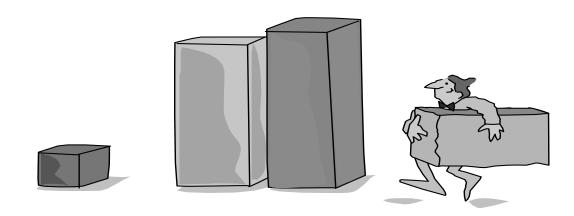
- Use any code page available in your browser
 - System i Access for Web translated into 38 NLVs (including DBCS
 - See screens in preferred language
- Use any keyboard setting available in Windows
- **❖** Font Size
- Set up your SSL through your browser







Packaging and Ordering





System i Access Family - Packaging

V6R1 5761-XW1 System i Access Family	V5R4 5722-XW1 iSeries Access Family	
System i Access for Windows, 5761-XE1, V6R1	iSeries Access for Windows, 5722-XE1, V5R4	
System i Access for Web, 5761-XH2, V6R1	iSeries Access for Web, 5722-XH2, V5R4	
System i Access for Linux, 5761-XL1, Vx.x (V6R1)	iSeries Access for Linux, 5722-XL1, V1.10 (V5R4)	
System i Access for Wireless, 5722-XP1, V5R3	iSeries Access for Wireless, 5722-XP1, V5R3	
V5R4 i5/OS customers not wanting to upgrade to V6R1 i5/OS but want the new V6R1 System i Access Family clients can order no-charge Feature No. 2649 of Product No. 5722-XW1		

 NOTE: iSeries Access for Web is available on V5R1 and later. This chart summarizes the releases that can currently be ordered.



Products - Focus

Description	Product	Product Number	Need 57xx-XW1* to use?
Family Name	➤System i Access Family	57xx-XW1	
Windows client	➤System i Access for Windows	57xx-XE1	Yes (for 5250 and Data Transfer)
Linux client	➤System i Access for Linux	57xx-XL1	Yes (for 5250)
Browser Access	➤System i Access for Web	57xx-XH2	Yes
Handheld / Wireless offering	➤System i Access for Wireless ➤iSeries Toolbox for Java ME	57xx-XP1	No
i5/OS systems management	➤System i Navigator ➤Operations Console	Packaged in 57xx-XE1	No

^{* 57}xx = 5761 or 5722

Flexible Purchase Options:

- Processor-Based = purchase price based on software tier, connect unlimited numbers of users
- ◆ User-Based = purchase only number of users who will be concurrently connected Notes:
- Ocan upgrade from User-Based to Processor-Based, but cannot go back to User-Based after purchasing Processor-Based
- Software maintenance included in base i5/OS software subscription



System i Access Family included with new hardware

- System i Access Family (5722-XW1 or 5761-XW1) unlimited user feature included with the following System i hardware
 - System i Model 515 Express configurations
 - See Announcement Letter 107-181 dated 4/1/07 for more details
 - System i Model 525 Express and CBU configurations
 - See Announcement Letter 107-182 dated 4/1/07 for more details
 - System i Model 570 with POWER6 technology
 - See Announcement Letter 107-448 dated 7/31/07 for more details
 - The new Power Systems Models 570 and 595 announced April 2008
- Any i5/OS user connecting to the above System i models is entitled to use any of the System i Access Family products at no additional charge. This includes:
 - System i Access for Windows
 - System i Access for Web
 - System i Access for Linux





Functions you can perform with System i Access for Web V6R1

Print

- Printer output
- PDF Printer output
- Printers
- PDF Printers
- Internet Printers
- Internet Printer Shares
- Printer shares
- Output Queues

5250

- Active Sessions
- Start 5250 Session
- Configured Sessions
- · Bypass Sign-on

Files

- Browse Files
- File Shares
- · Browse File Share

Items marked with "**" are new in the V6R1 version

Messages

- Display Messages
- Send Messages
- Sametime
- Operator Messages
- Message Queue

Database

- Tables
- My Request
- Run SQL
 - Open Office Formats
 - ** Wizards supports joins across multiple tables
 - ** Chart SQL results
- · Copy Data to Table
- Import Requests
 - System i Access for Windows
 - Query Manager
 - Query/400
- Extract Server Data

Commands

- Run commands
- My commands
- Search

My Personal Folder

Jobs

- User Jobs
- Server Jobs

Customize

- Preferences
- Policies
- Settings
- Transfer configuration data

Download

Other

- Bookmarks
- Change Password
- Connection Pool
- Status
- Trace

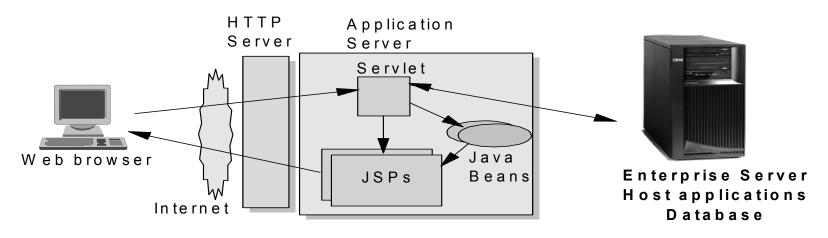
Single sign-on

- EIM (WAS authentication)
- ** Windows domain login (WAS authentication)
- ** Scheduling of tasks



Getting Started

Before you start with Access for Web you must get your web application server running



Tier 1 Tier 2 Tier 3



Supported Web Application Servers

- The System i Access for Web servlet code can be used with any of the following web application servers:
 - Integrated web application server
 - WebSphere® Application Server V6.1 and V6.0 – Express for i5/OS
 - WebSphere Application Server V6.1 and 6.0 Base and Network Deployment
 - WebSphere Application Server V5.1 -Express for iSeries
 - WebSphere Application Server V5.0 -Express
 - WebSphere Application Server V5.1 and 5.0 Base and Network Deployment Editions
 - ASF Tomcat (V5R4 and earlier releases)

- The System i Access for Web portlet code can be used with any of the following portal servers.
 - IBM Workplace Services Express V2.6
 - WebSphere Portal for Multiplatforms V6.0
 - WebSphere Portal for Multiplatforms V5.1.0.1
 - WebSphere Portal Express for Multiplatforms V5.0.2
 - WebSphere Portal Express Plus for Multiplatforms V5.0

PTFs required for latest web app server and portal support: http://www.ibm.com/systems/i/software/access/web/servicepacks.html



Integrated Web application server

What is it? Does System i Access for Web support it?

- What is the i5/OS integrated Web application server?
 - A web application engine much like ASF Tomcat
 - Uses minimal system resources, similar to ASF Tomcat
 - Minimal effort by an Administrator to maintain
 - V5R4 is the last release i5/OS will contain ASF Tomcat
- How is it packaged?
 - 5761-DG1 and 5722-DG1 IBM HTTP Server for i5/OS
 - Integrated Web application server 7.1 is available in the DG1 group PTF
 - V5R4 SF99114 level 13 or later
 - V6R1 SF99115 level 1 or later
- System i Access for Web support
 - V5R4 and V6R1 System i Access for Web support the i5/OS integrated Web application server
 - V5R4 iSeries Access for Web can be installed and is supported on V5R4 and V5R3 i5/OS
 - V6R1 System i Access for Web can be installed and is supported on V6R1 and V5R4 i5/OS



http://www.ibm.com/systems/i/software/websphere/

WebSphere Home
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Documentation
FAQs
Business Solutions
Samples
PTFs
Performance
Coexistence
Migration
Forum
Newsletter
Related Resources

IBM Systems > System i >

WebSphere Application Server

for i5/0S

Features

WebSphere Application Server Version 6.1 for i5/OS is announced. To find out more about the new version or any other of the supported versions — please click on the links below:

Version 6.1

- → IBM WebSphere Application Server V6.1 for i5/OS
- → IBM WebSphere Application Server for Developers V6.1 for i5/OS
- → IBM WebSphere Application Server Network Deployment V6.1 for i5/OS
- → IBM WebSphere Application Server Express V6.1 for i5/OS

Version 6.0

- → IBM WebSphere Application Server V6.0 for OS/400
- → IBM WebSphere Application Server for Developers V6.0 for OS/400
- → IBM WebSphere Application Server Network Deployment V6.0 for OS/400
- → IBM WebSphere Application Server Express V6.0 for OS/400

Version 5.1

- → IBM WebSphere Application Server V5.1 for iSeries
- → IBM WebSphere Application Server for Developers V5.1 for iSeries
- → IBM WebSphere Application Server Network Deployment V5.1 for iSeries
- → IBM WebSphere Application Server Express for iSeries V5.1

Version 5.0

- → IBM WebSphere Application Server V5.0 for iSeries
- → IBM WebSphere Application Server Network Deployment V5.0 for iSeries
- → IBM WebSphere Application Server Express for iSeries V5.0

Need directions?



- → iSeries Developer roadmap
- An Independent Analysis of the iSeries Developer Roadmap -Updated for 2006 (1.4MB)
- The Business Benefits of iSeries Application Modernization (183KB)
- ☐ Get Adobe® Reader®

Emerging Technology

→ Dynamic web site development for the non-technical business user.

Pilot Pricing Program

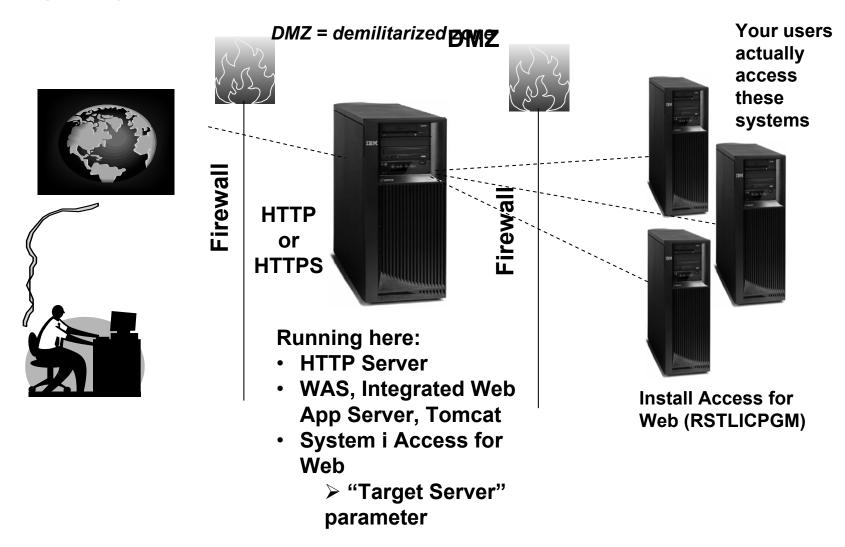
→ IBM Software Pilot Pricing Program for IBM eServer i5 520 Systems

Local intranet

e)



Setting up your web application server



Only need to set up one web application server



Get System i Access for Web running

- Get a copy of the System i Access for Web Install & Users Guide
 - http://www.ibm.com/systems/i/software/access/web/doc.html
- Install System i Access for Web from your i5/OS stacked media.
 - RSTLICPGM Install Access for Web, 5722-XH2, into QIBM directory
- Configure and start System i Access for Web.
 - CFGACCWEB2 Configure the System i Access for Web application server
 - STRACCWEB2 Start the System i Access for Web application server.
- Set some policies to enable or limit access to various functions of Access for Web



System i Access for Web Documentation on the Web...

V6R1

V6R1 System i Access for Web is supported on V6R1 and V5R4 i5/OS.



Connecting to System i: System i Access for Web (Information Center)	HTML PDF
System i Access for Web Single Sign-on Using WebSphere SPNEGO Support	PDF
Automating Tasks - HTTPS/SSL	PDF
Configuring an Integrated Web Application Server Instance	PDF

Back to top

V5R4

V5R4 iSeries Access for Web is supported on V5R4 and V5R3 i5/OS.



Connecting to iSeries: iSeries Access for Web (Information Center)	HTML PDF
URL Interfaces to V5R4 iSeries Access for Web	PDF

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V5R3

V5R3 iSeries Access for Web is supported on V5R3 i5/OS and V5R2

http://www.ibm.com/systems/i/software/access/web/doc.html



4 CL Commands in System i Access for Web

Example of the CL commands

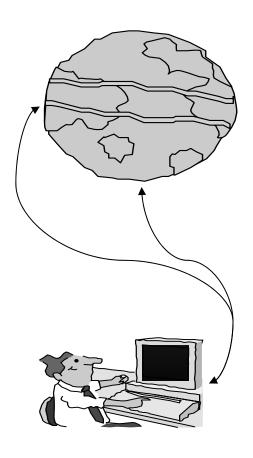
- Configure Command example when using WebSphere Application Server V5.1 - Express for iSeries
 - CFGACCWEB2 -appsvrtype *WAS51EXP -wasinst iwa51exp -appsvr iwa51exp
- Start Command example when using WebSphere Application Server V5.1 - Express for iSeries
 - STRACCWEB2 APPSVRTYPE(*WAS51EXP) WASINST(MYINST) APPSVR(*DEFAULT)
- End Command example when using WebSphere Application Server V5.1 for iSeries
 - ENDACCWEB2 APPSVRTYPE(*WAS51) WASINST(DEPTXYZ) APPSVR(*DEFAULT)
 - Sometimes you may need to end Access for Web so you can make changes, then start it again.

Remove Command

 The Remove System i Access for Web (RMVACCWEB2) command is used to remove the System i Access for Web configuration from a web application server



Users can now Connect!



- Open browser
- Key in System i url
- Prompted for i5/OS user id and password





Different Ways to Roll Out System i Access for Web

Use 'out of the box'

 Set some policies to limit what functions are accessible to your users, and give them the URL address to System i Access for Web

Use 'out of the box', but set up predefined functions

 You can set up preconfigured 5250 sessions that users (or groups of users) can run, can create predefined database requests for users to run, set up commands users can run, etc.

Create your own 'window' to your system through Access for Web

 Add company banners to screens, set up 'click and link' tasks that users can perform, set up macros to simplify user access.

Use Access for Web with the IBM WebSphere Portal solution

 A single unified workspace in which your employees, trading partners, and customers can easily find and use the applications and information that they need



Different Ways to Roll Out System i Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions



 Create your own 'window' to your system through System i Access for Web



Use the WebSphere Portal solution



Home Page entry point

Home Page = http://<myiseries>:<port>/webaccess/iWAHome

 System i Access for Web 'Home Page' out-of-the-box view

This page is totally customizable



New 'look' in V5R4...



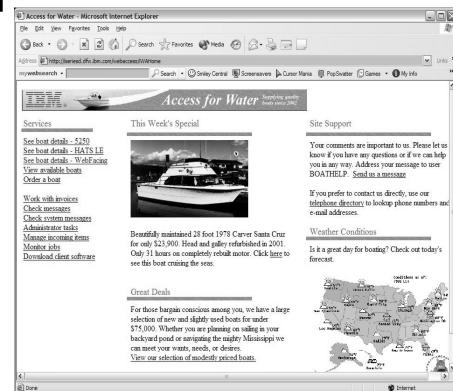
Your Window to your System i

http://<myiseries>/webaccess/iWAHome

Customized 'window' to i5/OS

Window is associated with i5/OS user profiles

- An administrator can create multiple different 'windows' based on user profile / group profile for different types of users.
- Can tightly control what functions a user can perform on your iSeries
- Tie in with other web applications (such as WebFacing and HATS) from here as well
- Link to other systems, not just
 System i



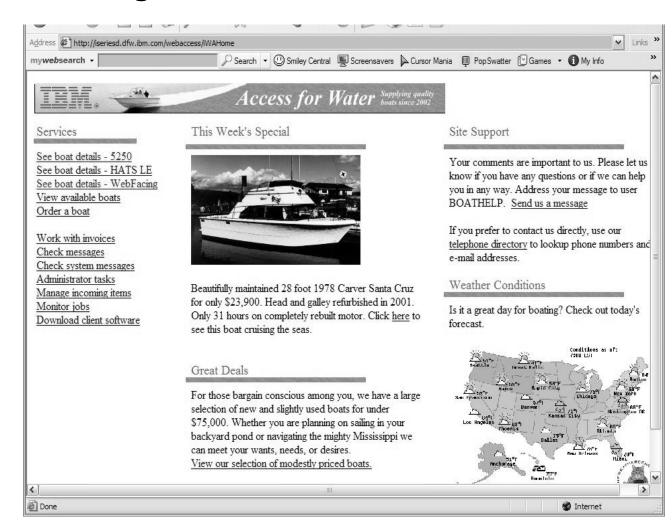
- One view and set of functions for the Accounting department
- Another view and set of functions for the Warehouse staff



Customized Home Page

Customized view of the Home Page

- Could be used as 'entry' point to iSeries
- Let's drill down and look at some of this...





http://iseriesd.demos.ibm.com/webaccess/iWAHome



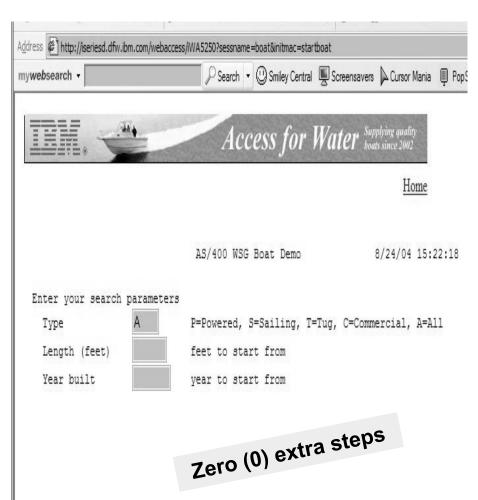
Using 5250 emulator in System i Access for Web

The company banner, 'Access for Water' is carried forward on all screens

 Went into 'Customize → General' and pointed at file with the company .gif.

5250 emulator in Access for Web

- Application looks better and did no work
- Can use 5250 Bypass Signon (new in V5R4) to bypass i5/OS sign-on screen
- Can use Access for Web Macro support to start the RPG application (BOATS)

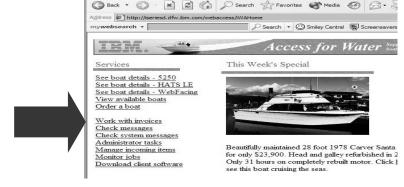




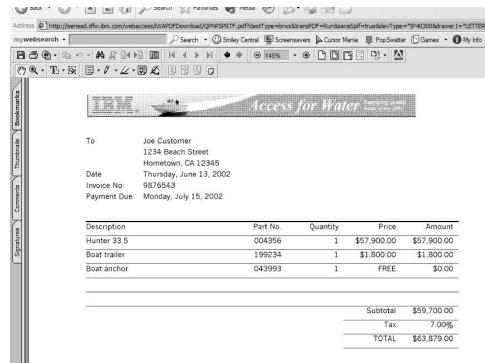
Task Oriented – not function oriented...

Selected 'work with invoices'

- This takes user to 'Printer Output' – user's Spoolfile printer output
- SCS or AFP printer output is converted to PDF 'on the fly' by Access for Web to PDF
- Since it is now in .PDF format, user can print it to any network printer



Access for Water - Microsoft Internet Explorer
File Edit View Favorites Tools Help





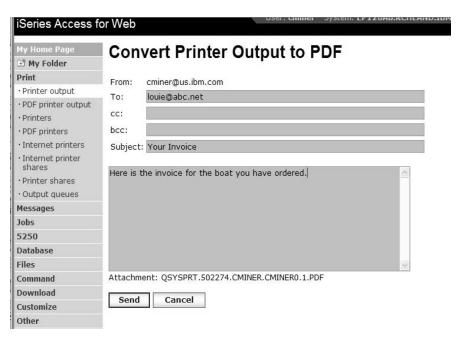
E-mail PDF output

E-mail is integrated with System i Access for Web

- Your mail server can be anywhere in your network
- Users receiving your e-mail need only an e-mail address

User selects an option in the Printer Output screen to 'e-mail PDF output'

- The PDF document is then included in the e-mail
- Sender's e-mail address filled in; user only needs to address it.



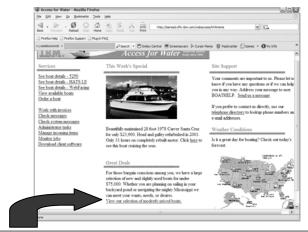


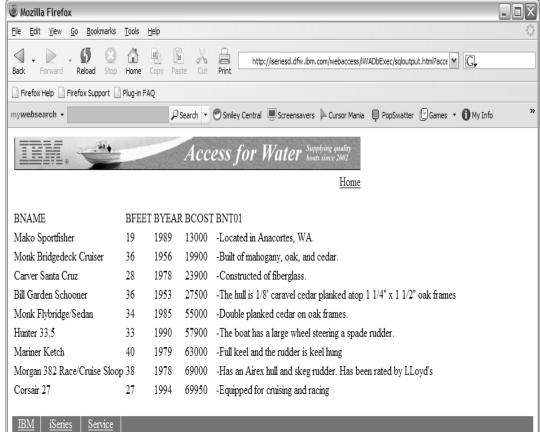


Run an i5/OS Database Query

Clicked on 'View our selection of moderately priced boats'

- Administrator had previously built an SQL Query using the System i Access for Web 'Database' function
- Could also have been set up to show in an .XLS or .PDF format
 - a variety of other output types as well







Try out System i Access for Web on a demo server!

Start your browser and connect to the following web site: http://iseriesd.demos.ibm.com/webaccess/iWAHome (case sensitive)

User ID = WACUST Password = demo2pwd	This shows the basic look of System i Access for Web as we ship it. You can try various functions including working with printer output, creating database requests, etc. Click on the 5250 tab, sign onto the iSeries, then start an RPG application called BOATS and run it.
User ID = BOATADMIN Password = demo2pwd	This is an example of how a customer might design a web page for their use. You will see that an end user could start the same BOATS application by clicking on the 5250 session, or they could have used HATS to run the application. You will also see other links that would let a user work with spooled file information, work with IFS, run database requests, etc

Send email to: LLHIRSCH@us.ibm.com to reset the user profiles if either gets disabled.



More Documentation...

Article describing how 'Access for Water' web page was built

Go to the System i Access Family web page at:

www.ibm.com/systems/i/software/access/web/articles.html

- Find article written Jan/Feb 2003 entitled 'Build a Quick and Easy Web Site with iSeries Access for Web' (PDF version)
- Updated Oct 2006 in <u>System i News</u>
 'Tailor iSeries Access for Web'

Weber on CA/400

Weber on CA/400

 Who sell benefit? (Sedies manages) and idealtop administrators who want to Web-enable their (Sedies applications.

What you'll learn: Whose estep-by-step settide details how shope can use 10 steps.
 Access for the Web to provide browsed used access to 10 settle applications and data. Because 10 settle Access for Web is implemented as a set of Java seculets that an on the 10 settle setup, only a browset is expliced on the client.

• Bottom II not II your (Section section is part of your company's Intranet, you can use (Section Access to Web to provide access to your creatures for others within your company. If your (Section section is part of the Internet, you can use (Section Access for Web to provide access to your resources for your authorises and suppletes. In this case, you also need to provide your authorises and suppletes. In this case, you also need to provide your authorises and supplies with a user profile to access your (Section Section Access for Web, (Section shopp) and the provide access to the Web, (Section shopp) and data to a brownesh and environment and give both users and business positives access over the Web.

uild a quick and easy Web site with iSeries Access for Web

You on build a quick and every Web eith Eor your company with the customization support of liveties Access for Web. No Braz programming is required. You simply contact HIMD files and set configuration options. In this action, I demonstrate this capability by contings Web eith to self boats. This information is beared on the functionality available with the VSIQ release of library access for Web. Peter introduced by IBMI supermises 2000, it provides a browner interface to libraries executes, such as DSQ UDB, pointer output, and OS/400 CL commands.

Home page and template files

iSecies Access for Web ships a deBult home page. This page is displayed when you access the home page USCs http://captemi/web.coess/WACHome. The deBult from page is stored in the ISecies integrated file system in the following location: /QUBAC/Pace/Daby/Access/WACHom/Page/Bulton.

idenies Access for Web also ships a default template file. The template file contains the HTML source deplayed at the top and bottom of each liveries Access for Web containt page. The location of the default template file is /QEM/Food Data/Access/Web2/html/web access/trail. The SS values in the template file are replacement bags. We will discuss these laber in the study.

Fixed of all, we need to cousts a customized home page and a customized template file. We do not want to modify as update the file under /(JIDM/Fred Date einer this discatory base is intended only for product file. Instead, we cousts a new discatory named /books/freepops and place out file in it. Our customized home page contains linked to view and codes basts. Our customized template file combine the company along will discuss detailed the file combine base in the action.



Jan et Weber Janet Weber is an advisory software engineer in the IBM. Rochester, Minnesota Jabo-

objecty. She has had a vast by of other on the EC Supplied, Chief Access, and I Sed us A come pools to Her focus has been on programming in before. I an 4the accessing a member of the I Sette A cover for Web development beautiful.

- 5



Different Ways to Rollout Access for Web

Use 'out of the box'



 Use 'out of the box', but set up predefined functions



- Create your own 'window' to your system through Access for Web
- Use the WebSphere Portal solution



System i Access for Web has many entry points

'URL Interfaces to System i Access for Web' manual available on the web

- Can enter at many different pages
- Can use navigation bar to move from function to function

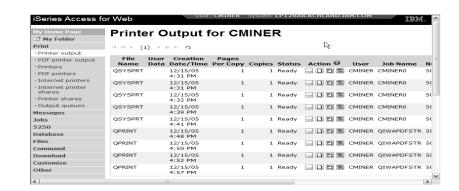
http://<myiseries>/webaccess/iWA5250



http://<myiseries>/webaccess/iWAMain Series Access for Web My Folder



http://<myiseries>/webaccess/iWASpool





Reduce functions you give to users

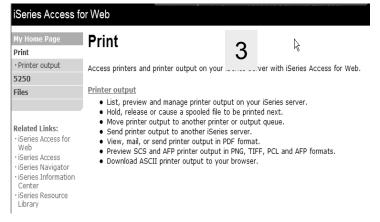


Series Access for Web IIIM Print Print Printer output Access printers and printer output on your iSeries server with iSeries Access for Web. · PDF printer output Printers • List, preview and manage printer output on your iSeries server. PDF printers · Hold, release or cause a spooled file to be printed next. Internet printers · Move printer output to another printer or output queue. Internet printer · Send printer output to another iSeries server. shares · View, mail, or send printer output in PDF format. Printer shares · Preview SCS and AFP printer output in PNG, TIFF, PCL and AFP formats. · Download ASCII printer output to your browser. Output aueues 5250 PDF printer output Files • List, view and manage PDF printer output on your iSeries server. . Mail and save PDF printer output. Related Links: · iSeries Access for · List and manage printers on your iSeries server. Web · View printer and status information. · iSeries Access Vary on and vary off the printer device. iSeries Navigator . List, preview and manage printer output for a printer from the printer list. iSeries Information · View and answer messages waiting on the writer job. Center . Manage the writer job associated with the printer using hold, release, start and stop iSeries Resource Library PDF printers

Reduce tabs that get displayed

Reduce options under tabs

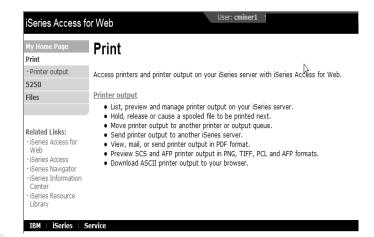






Printer Output - Spoolfile

- 1. Print Tab
 - User only has one option available, i.e. 'Printer output'
- 2. Default look of 'Printer Output'
- 3. Customized look of 'Printer Output' for signed on user
 - Removed many of the columns of printer output
 - Reordered list
 - Removed several end user actions



Printer Output for cminer ** My Folder Print · Printer output PDF printer output 12/15/05 4:31 PM QSYSPRT QSYSPRT 12/15/05 4:31 PM ... D E CMINER CMINERO 502274 Drinter chares Output queues ... D T CMINER CMINERO 502274 12/15/05 5250 QPRINT ... D T Z CMINER OIWAPDESTR 502281 12/15/05 Database 4:48 PM Files OPRINT 12/15/05 Command OPRINT ... D T CMINER OIWAPDESTR 502287 12/15/05 4:52 PM Customize OPRINT 12/15/05 4·57 PM

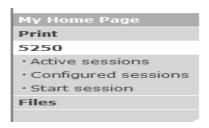
Series Access for Web Printer Output for cminer1 Print Printer output H ((+ [1])) H Q 5250 File Name Job Name Creation Date/Time Pages Per Copy User Priority Action 9 5 ... 🛭 🖺 🖫 QPJOBLOG CMINER10 12/16/05 6:23 PM 2 CMINER1 5 ... 1 1 1 QPJOBLOG CMINER13 12/16/05 10:23 PM 2 CMINER1 Related Links: OSYSPRT CMINER10 12/19/05 10:33 AM 1 CMINER1 5 ... 1 1 2 iSeries Access for CMINER10 12/19/05 10:33 AM 1 CMINER1 5 ... 1 1 1 5 ... 1 1 2 1 CMINER1 CMINER10 12/19/05 10:33 AM iSeries Access iSeries Navigator · iSeries Information H ((+ [1] +)) H Q

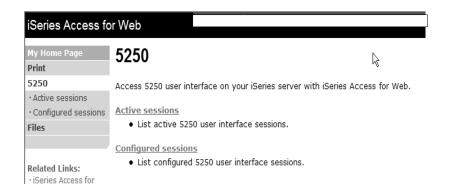


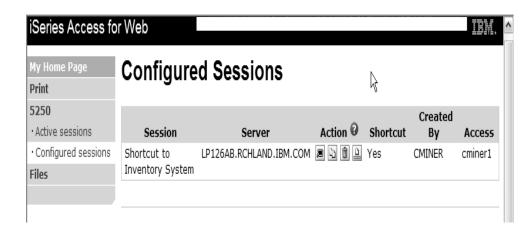
Run Pre-configured 5250 Sessions

You want to limit users to only starting 5250 sessions that you have preconfigured

- You have removed user's ability to configure a session
- User selects 'Configured Sessions'
 - Only one listed, only action user can perform is to 'start' it
- User clicks on Start





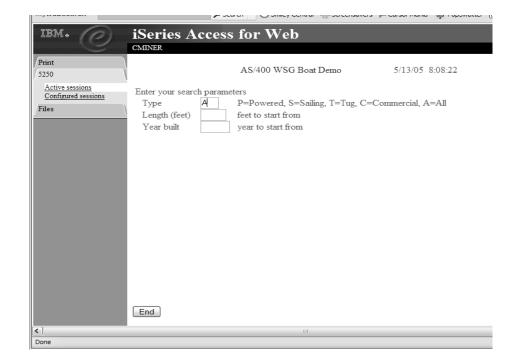




User can run 5250 application

User is placed in this application

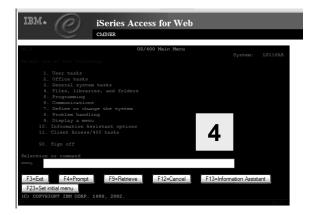
- The session could be configured to include a macro to put the user directly into a specific application on the System i
 - Or on a menu screen
- Use CHGUSRPRF, LMTCPB=Yes to remove command line from user's screen

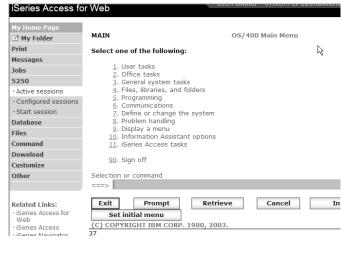




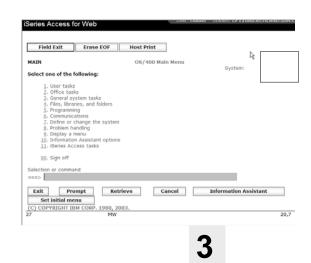
Change look of 5250 session

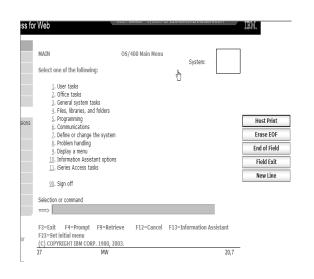
- 1. Default 'web' look
- 2. Changed colors, added keypad at side, changed buttons at bottom to words





- 3. Removed navigation bar, put keypad on top
- 4. Selected 'traditional' view, removed navigation bar







Work with Files in the IFS

- Navigate and browse the directories located on your iSeries server integrated file system
 - Don't need to map drives
 - Don't need to know directory structures



- View, upload, and download files
- Copy and mail files
- Rename and delete files and directories
- Zip and unzip files and directories
- Edit authorities and change ownership of objects in the integrated file system



Browse Files - 'Filtered View'

When I click on 'Browse Files', I see only a directory called 'cminer1' and its content

 Because the administrator set a 'Default Directory' policy for me

Actions I can perform:

- Subdirectories: Create new ones, Rename, Work with
- Files: Copy, Rename,
 Delete, Mail, Work with (ie,
 Zip, Unzip, etc)





Different Ways to Rollout System i Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions
- Create your own 'window' to your system through Access for Web





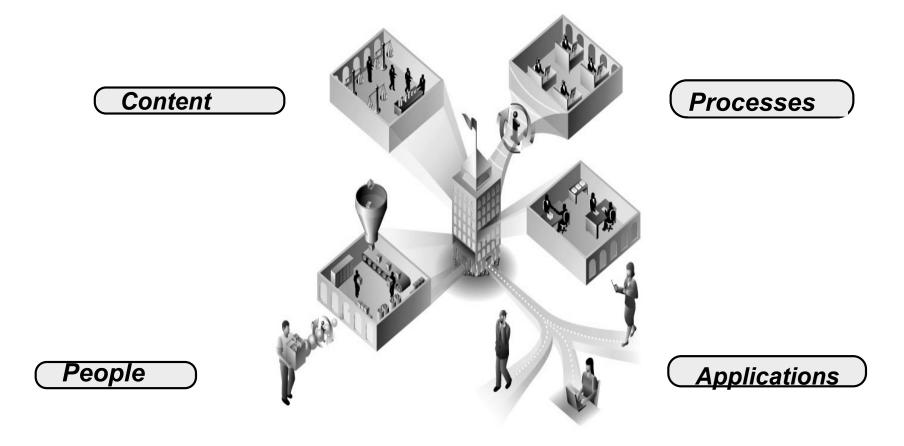
Use the WebSphere Portal solution



Portal Solutions – the next wave in technology

For most organizations, the decision to invest in an enterprise portal is not a question of "if," but "when"?

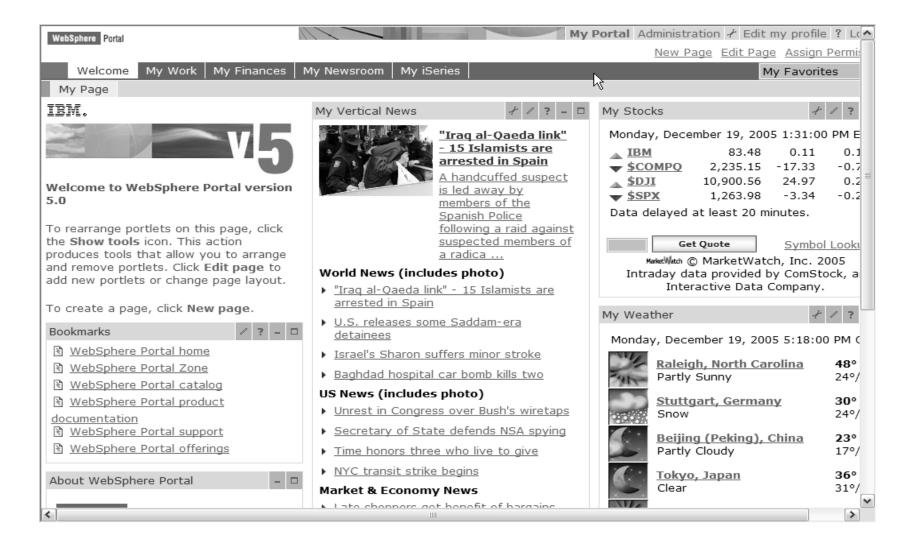
(Craig Roth, VP META Group, 6/3/03)



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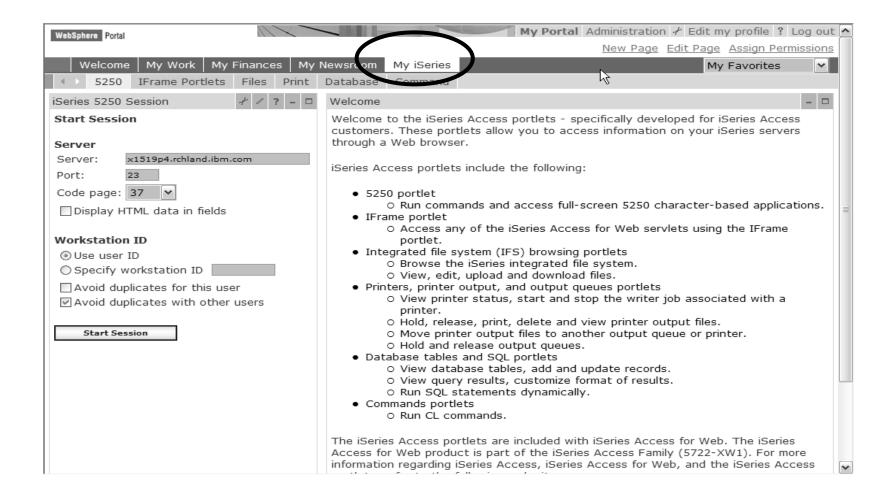


Portal built on i5/OS





System i Access for Web Portlets on System i Portal





Portlet Support added to System i Access for Web

V6R1	V5R4	V5R3 PTF SI11914 (May 2004)	V5R3 (Jan 2004)
 New portal application: "Standard portal application" Written to the Java Specification Requests (JSR) 168 Portlet Specification Strategic System i Access for Web portal offering 	 Single Sign-on (SSO) Via WAS Security model 5250 Bypass signon option Database OpenOffice spreadsheet format (.ods) iSeries SQL Requests Viewer to look at iSeries SQL results Files Zip function to zip files in IFS 	 File Print Database Command Credentials Related Links 	5250iFrameWelcome
Original portlets, "IBM portal application," are still available	iSeries Credentials		



Different Ways to Rollout Access for Web

- Use 'out of the box'
- Use 'out of the box', but set up predefined functions



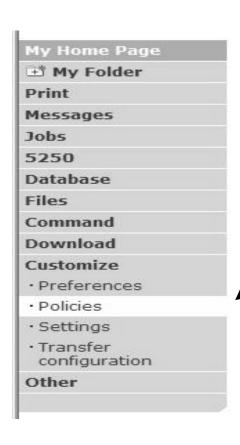
 Create your own 'window' to your system through Access for Web



Use the WebSphere Portal solution



Control user access to functions



- 1. How do I keep my users from using all these functions?
- 2. How do I set up the environment for my users?
- 3. Should I let my users set have some individual screen settings for some functions?

You need *SECADM authority to customize profiles

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System i Access for Web uses i5/OS User Profiles

When an System i Access for Web user attempts to access any function on the iSeries, the following sequence of checks are made to authenticate user access:

- User profile
- Group profile(s)
- *PUBLIC profile

*PUBLIC profile is the set of default policy settings shipped with Access for Web

- The defaults allow most functions to be available to all users
 The settings in these policies indicate what functions within
 System i Access for Web, a user can attempt to use.
 - For Example: Let's say you give users full access to the 'Database' tab.
 - You have Object Level authority set up on your data
 - When a user attempts to use one of the System i Access for Web Database GUIs to get at the database information, the user will get an i5/OS message indicating they are not authorized to access data

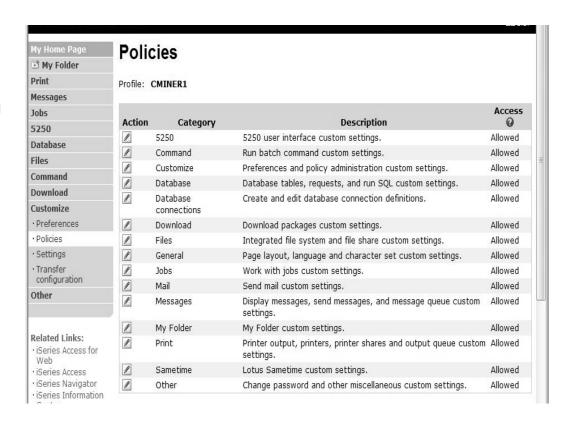


Customize → Policies

Policies are used to control access to System i Access for Web functions

For example:

- A Files access policy can be set to Deny or restrict a user or group from accessing the file function.
- Policies are saved and associated with the appropriate iSeries user or group profile.
- Each 'Category' expands for granular control



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Policies - customize for all users at once

One alternative...

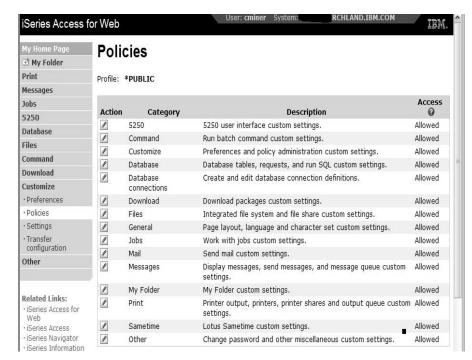


Use the *PUBLIC group profile and set policies for all users

- 'Deny' functions for all users in a single step
- Then 'Allow' specific users access to functions via their User or Group profiles

Problem:

You're locked out too, until you go in and "Allow" functions to yourself

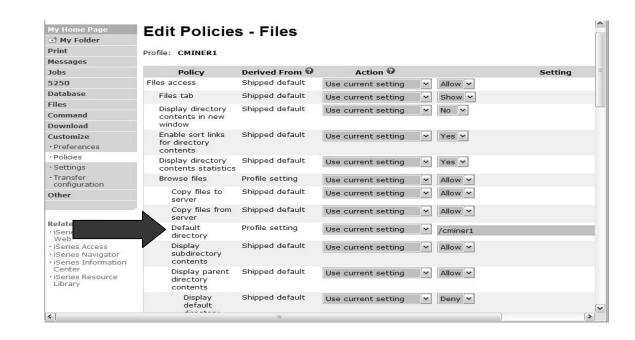




Example: Set Policy to Default to Specific Directory in IFS

Set a 'Default Directory' for:

- *PUBLIC
- Groups of users
- Specific user



In this example, I went into CMINER1 profile, and set policy to show only the 'CMINER1' directory to this user...







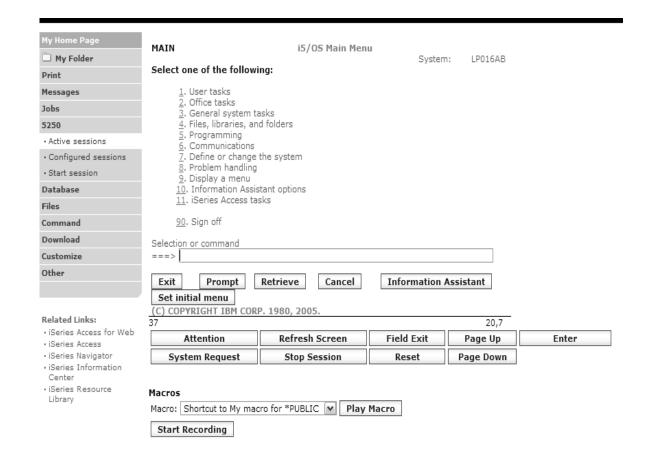
System i Access for Web 5250 Interface

Runs as an interactive job

 Only function in System i Access for Web that is interactive

TN5250 port

 Only function in System i Access for Web that uses TN5250 port





Use "Start Session" Dynamically

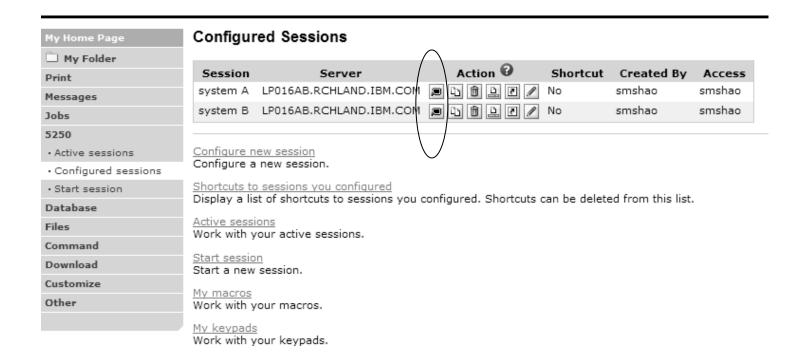
- Specify the system to connect
- Select the session attributes
 - Port, code page, workstation ID, etc.
- Start session





Start a Configured Session

- Configured sessions list shows the list of sessions for the logged in user
- Select the "Start" icon for the session to start



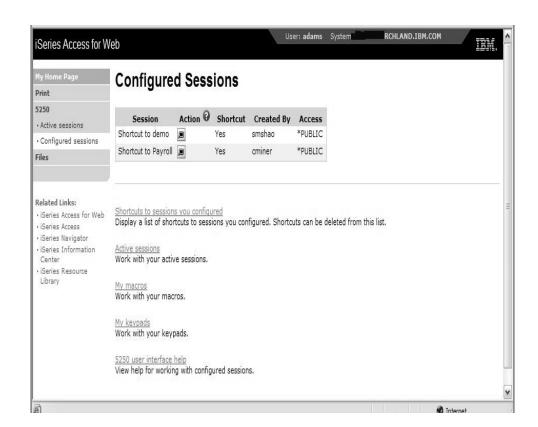


Run Pre-Configured 5250 Sessions

You can limit users to connecting to only specific systems or running only specific applications.

- Create preconfigured 5250 sessions
- Then set policies to restrict users to only preconfigured sessions
- User selects 'Configured Sessions'
 - Only link provided
 - User has only one action → to start a session

http://<systemi>:<port>/webaccess/iWAMain









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System i Access for Web – Database Functions

Access database tables on your iSeries server with iSeries Access for Web.

Tables

- View a list of database tables on your iSeries server.
- Perform actions on these tables without having knowledge of SQL and its syntax.
- View the contents of a table in a paged list, using the Quick view action.
- Add and update records in a table using the Insert and Update actions.
- Create your own customized SQL request for a table using the Run SQL action.
- Create your own customized copy data request for a table using the Copy data to table action.

My requests

- · View a list of previously saved requests.
- Run or Edit requests from this list.
- Manage lists using the Copy, Delete, and Rename actions
- Create and manage shortcuts to requests

Run SQL

- Run SQL statements dynamically.
- View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output
 format depends on how you have your browser configured and whether the browser can locate a
 plug-in for the output type you choose.)
- Customize how data is returned by setting options specific to the output type.
- Build SELECT statements using an SQL Wizard.
- Save requests for repeated use.

Copy data to table

- Copy existing data files from your PC to a database table on your iSeries server.
- These data files can be in many popular file formats, including Microsoft Excel and Lotus 1-2-3.
- Replace the contents of a table or add data to an existing table.
- Create a new database table based on the contents of a workstation file.
- Save requests for repeated use.

Import request

- Import Client Access Data Transfer upload and download requests into iSeries Access for Web copy data and SOL requests.
- Imported requests are automatically converted to iSeries Access for Web format.
- Run and edit converted requests on your iSeries server just like other copy data and SQL requests.

Import query

- Import queries generated by Query for iSeries and DB2 UDB for iSeries Query Manager.
- Imported gueries can be saved into iSeries Access for Web database requests.
- Run and edit converted queries on your iSeries server just like iSeries Access for Web SQL requests.

Extract server data

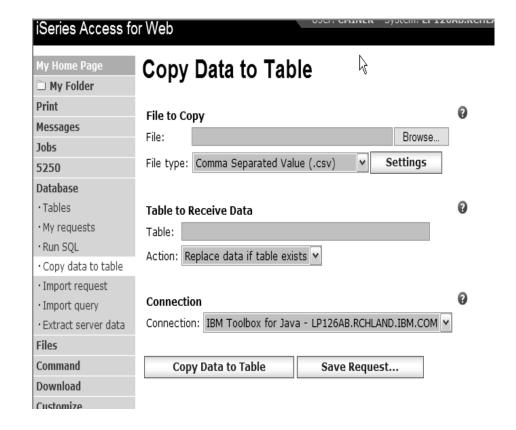
• Extract server object information into a database table.



Upload PC Data to the System i

- Upload data from a variety of file types
 - Excel, XML, Lotus, etc
 - OpenOffice new V5R4
- Put into iSeries database
 - 'Replace' contents of table
 - 'Append' to existing data
- If no table exists on the iSeries, you will get a wizard to help you create a new table



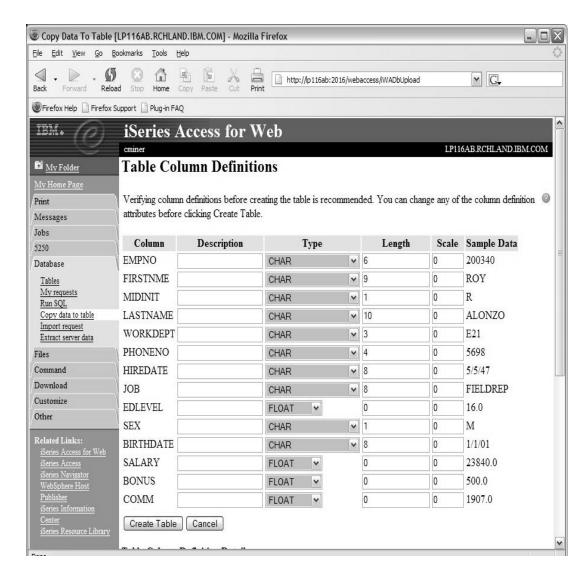




Create System i Table



Wizard to help you create an iSeries table from your PC spreadsheet

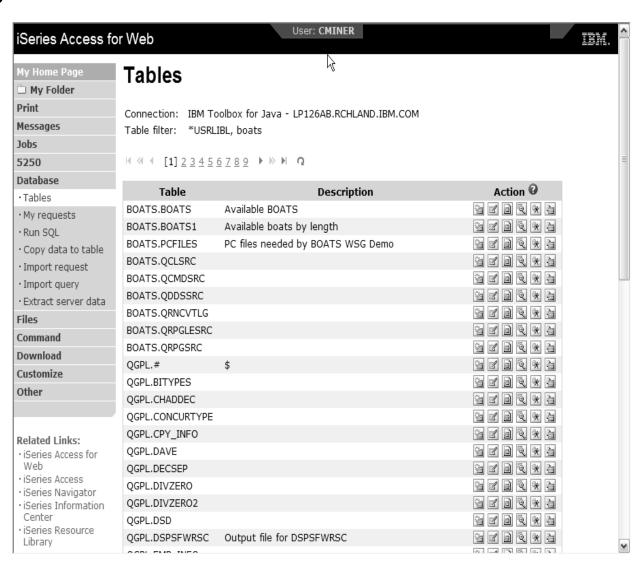




Database Tables

You can:

- Insert
- Update
- Quick View
- Find (new V5R4)
- Run SQL
- Copy Data to Table





Download Database Information from System i

Run SQL allows you to run SQL statements

 Could copy/paste complex SQL statements in here...

Variety of output types

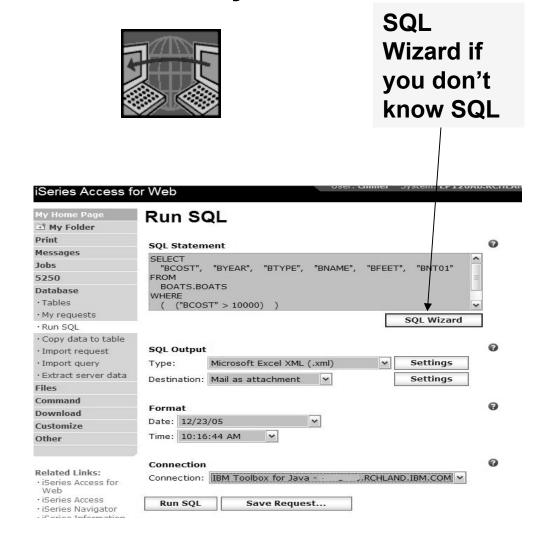
PDF, Excel, 1-2-3, XML, etc

Destination

- Browser
- Mail as attachment
- Personal Folders
- IFS (new V5R4)

Can save request

 My Requests, Give Shortcut to others





Create Database Requests with SQL Wizard

SQL Wizard enables you to:

- Select tables
- Select which columns to return
- Add conditions to your select statement
- Select the columns by which you want the data sorted



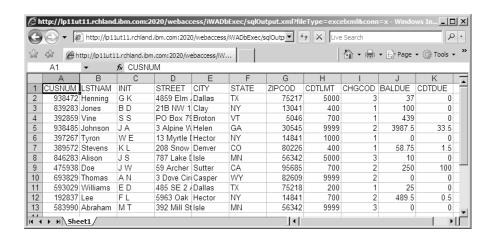
61



New in V6R1! Chart SQL Results: Background

- System i Access for Web provides support to run SQL statements and store the results in a selected file format
- Historical supported file formats include:
 - HTML
 - Microsoft Excel
 - PDF
 - OpenDocument





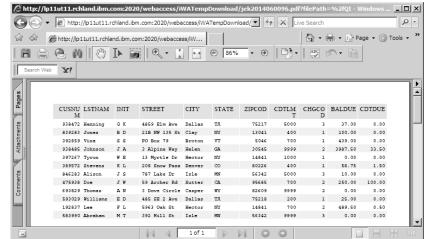
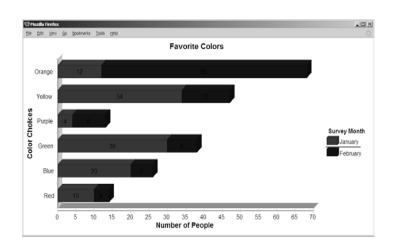


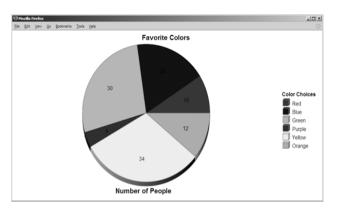


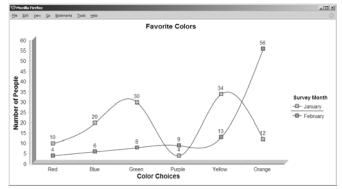
Chart SQL results: SVG File Format

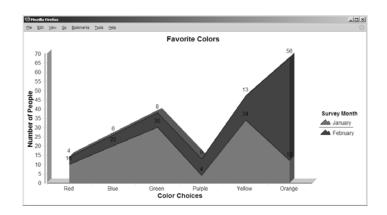
Support for new output file type in V6R1

- Scalable Vector Graphics Chart (*.svg)
 - Language for describing 2D graphics in XML
 - W3C standard
- Users can store SQL results in a chart







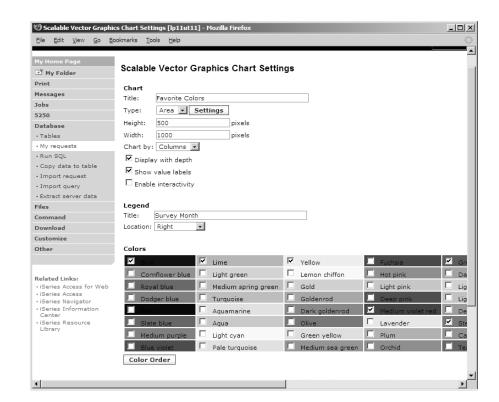


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Chart SQL Results: SVG Configuration

- Many configuration options
 - Chart type
 - · Area, Bar, Pie, Line
 - Colors
 - Legend location
 - Grid shown
 - Chart type options
 - Bar vertical or horizontal
 - Pie exploded or complete
 - Line marker shape
 - Other....
- Same destination options:
 - Browser, mail, IFS, personal folder



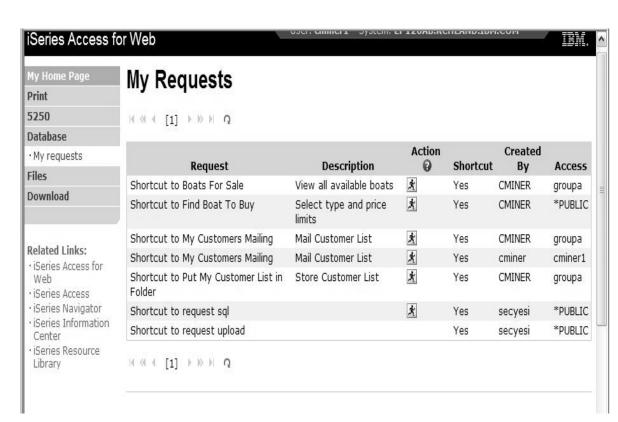


Database - Run Requests



Administrator could:

- Give users or groups of users some database requests that were created for them.
- Users can run only these specific requests
- No other database options offered





Printing





Work with Printer Output, Printers, Queues

Typical end user printer tasks

- Printer Output
- PDF Printer Output



Tasks more oriented toward system operators, administrators, programmers, etc

- Printers
- PDF Printers
- Internet Printers
- Internet Printer Shares
- Printer Shares
- Output Queues





Work with Printer Output

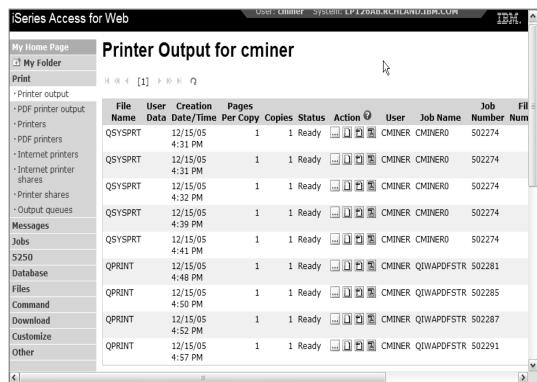
http://<myiseries>/webaccess/iWASpool

My 'printer output' Actions include:

- Work with
- View
- View As
- View PDF

Easy-to-use GUI for working with my printer output

 Don't need to sign onto a 5250 session, and run commands to get to spool file

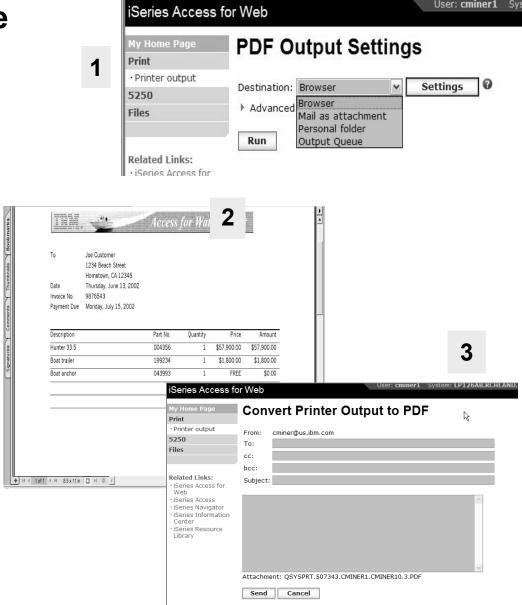


Note: IBM Infoprint Server (57xx-IP1) is NOT needed to use "View PDF"



Printer Output - Spoolfile

- 1. Requested 'View PDF'
 - Can select any option on pulldown for my printer output
- 2. View in Browser
 - Shows overlays, etc
 - Can print on any printer in network
- 3. Send .PDF document in an email
 - Mail server does not have to be installed on iSeries





PDF Printer Output

http://<myiseries>/webaccess/iWAPDFPrinterOutput

Printer output automatically converted to PDF and placed in PDF Printer **Output Queue at spool** time

Actions include:

- -View
- –Copy to File
- –Copy to Folder; Delete



-Mail

Actual host application could additionally send spooled file to another output queue (in SCS or AFP mode)

My Home Page	PDF Pri	nter O	utput					
Print Printer output	H « 4 [1] 2	3 4 ▶ ≫ ▶	Q					
PDF printer output Printers	File Name	File Number	User	Creation Date/Time	Job Name	Job Number	Action	
· PDF printers	QSYSPRT	5	JOANSG	4/7/05	QPRTJOB	064814		
Internet printers	QSYSPRT	1	CLARKD	4/27/05	QPADEV0018	115207		è
· Internet printer	QSYSPRT	2	CLARKD	4/27/05	QPADEV0018	115207		è
shares	QSYSPRT	1	CLARKD	5/2/05	QPADEV0012	122000		b
· Printer shares	QSYSPRT	2	CLARKD	5/2/05	QPADEV0012	122000		B
· Output queues	QSYSPRT	3	CLARKD	5/2/05	QPADEV0012	122000		è
Messages	QSYSPRT	4	CLARKD	5/2/05	QPADEV0012	122000		
Jobs	QSYSPRT	5	CLARKD	5/2/05	QPADEV0012	122000		
5250	QSYSPRT	6	CLARKD	5/2/05	QPADEV0012	122000		
Database	COVER_PAGE	11	GILBERTM	11/1/05	QPRTJOB	287159		b
Files	BG1_3812	12	GILBERTM	11/1/05	QPRTJOB	287159		è
Command	BG2_3812	13	GILBERTM	11/1/05	QPRTJOB	287159		b
Download	BG3_3812	14	GILBERTM	11/1/05	QPRTJOB	287159		
Customize	BOX_3812	15	GILBERTM	11/1/05	QPRTJOB	287159		
Other	MBX_3812	16	GILBERTM	11/1/05	QPRTJOB	287159		
Other	IMG_3812	17	GILBERTM	11/1/05	QPRTJOB	287159		b
	HRZ_3812	19	GILBERTM	11/1/05	QPRTJOB	287159		

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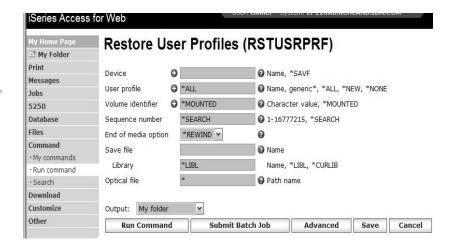


Run CL Commands

1 Search for Command

iSeries Access fo	or vveb		
My Home Page	Search	for C	ommands
⊞ My Folder	- Cui on		
Print	Command: wo	rk user ni	rofiles
Messages		IBI	9
Jobs	Library: *L	IBL	•
5250	0		
Database	Search by	•	
Files			
Command	Command r	name ® T	ext description 🕜
· My commands	Search		
· Run command	Search		
·Search			
Download	4 <4 4 [1] <u>2</u>	34567	8910 >>> 10
Customize			
Other	Command	Library	Description
Related Links: · iSeries Access for Web · iSeries Access · iSeries Navigator · iSeries Information Center · iSeries Resource Library	WRKUSRPRF	QSYS	Work with User Profiles
	WRKUSRJOB	QSYS	Work with User Jobs
	DSPWSUSR	QSYS	Display Work Station User
	RSTUSRPRE	QSYS	Restore User Profiles
	WRKNWSENR	QSYS	Work with NWS User Enrollment
	DSPNWSUSR	QSYS	Display Network Server Users
	WRKUSRTBL	QSYS	Work with User Tables
	WRKNETE	QSYS	Work with Network Files
	WRKNETJOBE		Work with Network Job Entries
	WRKNWID	QSYS	Work with Network Interfaces
	A A COLOR DIA COLO		
	WRKNWSD WRKNETTBLE	QSYS	Work with Network Servers Work with Network Table Entry

2 Then Run Command



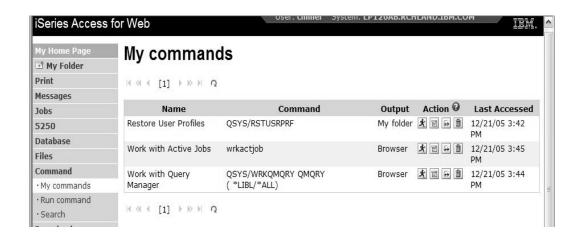


My Commands

User can run a command, then Save it

 Commands can be saved by running the Save action for a command that was run in the current browser session.

Then next time they could simply select My Commands and run the previously saved commands

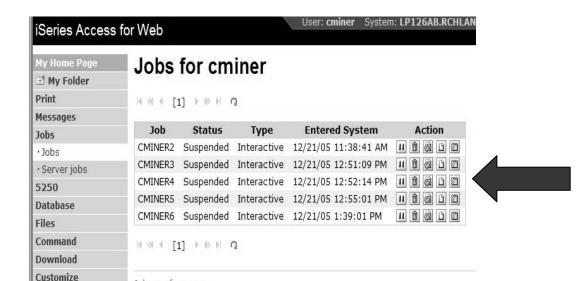








Jobs / Server Jobs for end user



- Actions Include
- Hold Job
- Delete/End Job
- View Job Log
- Printer Output
- View Job Log Properties

Actions Include

Jobs preferences

Customize job list preferences

Hold Job

Other

- Delete/End Job
- View Job Log
- View Job Properties



My Home Page	Server	Jobs for cm	niner			
∄ My Folder	Conven	0000 101 011				
Print	4 4 4 [1]	▶ ⇒ ► Q				
Messages	0.0					
Jobs	Job	Detailed Status	Server	Action	Run Priority	Thread Count
·lobs	QNPSERVS	Waiting for time interval	Network Print Server		20	1
· Server jobs	QZRCSRVS		Remote Command Server		20	1
5250						
Database	QZRCSRVS	Waiting for time interval	Remote Command Server		20	1
Files						
Command	QZRCSRVS	Running	Remote Command Server	II Û Ø D	20	1
Download	QZSCSRVS	Waiting for time interval	Central Server		20	1
Customize						
Other	QZSCSRVS	Waiting for time interval	Central Server	II fi (a) E	20	1
Related Links: · iSeries Access for	4 ≪ ← [1]	→ → → Q				

© 2008 IBM Corporation 75

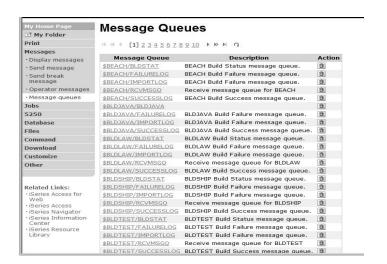
iSeries Access for Web



Messages

Series Access for Web My Home Page Messages Mv Folder Print Access messages on your iSeries server with iSeries Access for Web. Messages Display messages Display messages Display, answer and manage messages in the message queue for the logged on user. Send message · Send break Send message message Send a message to users and message queues. Operator messages Message queues Send break message Jobs Send a Sametime announcement to iSeries Access for Web Sametime users. 5250 Send a break message to iSeries work stations. **Database** Operator messages Files • Display, answer and manage messages in the system operator message queue. Command Download Message gueues Customize · List message queues on the iSeries server. Select, display and manage messages in message queues. Other

- Display Messages
- Send Message
- Send Break Message
- Operator Messages
- Message Queues





My Folder





My Folder

Folder resides in the IFS

- Folder does not show up in IFS directory listing
- Administrator can control size of Folders (new in V5R3)

Folder can only be accessed by owner

- Good for long-running requests (ie, actions performed asynchronously so the browser is not tied up)
- An easy way to avoid large attachments (ie, a large query result)

Can place information in other users' Folders

- -Performing requests for someone else
- -Mechanism for workflow.

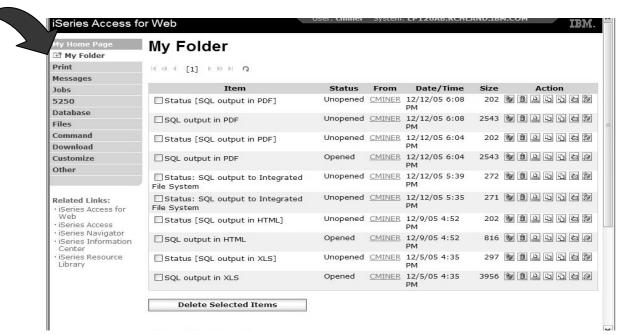
Combine e-mail and My Folder functions to:

- Perform requests for someone else
- Distribute results to a group of users
- Send e-mail to others when you place information in their Folder
- Be notified when new items are placed in your Folder



Simply click on 'My Folder' to see items

- Can store items email them, delete them, etc
- Do not need to understand any Directory structure to put information in My Folder or another's Folder





Downloads

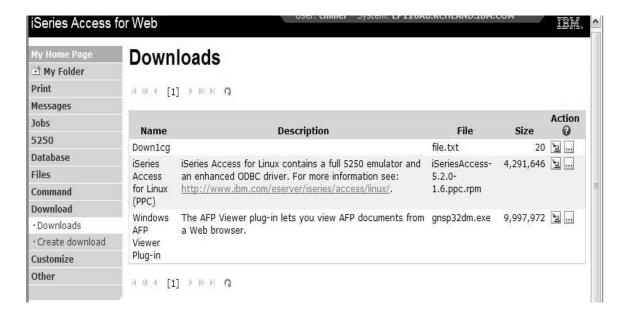




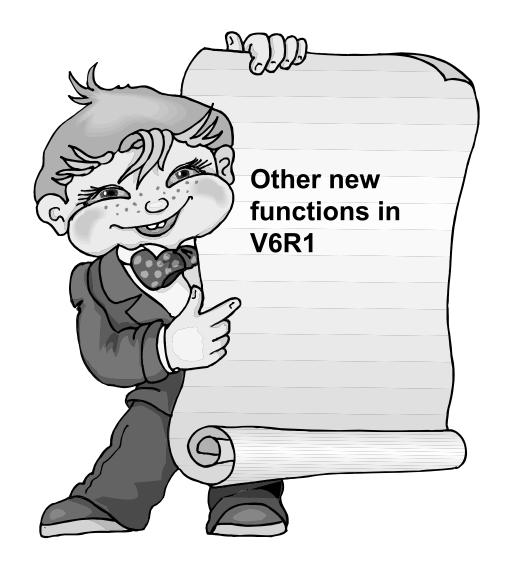
Downloads – for file/program distribution

http://<myiseries>/webaccess/iWAPackages

- Mechanism to distribute files / programs to users
- Administrator can create downloads
- Management functions included for updating downloads and for controlling access to them







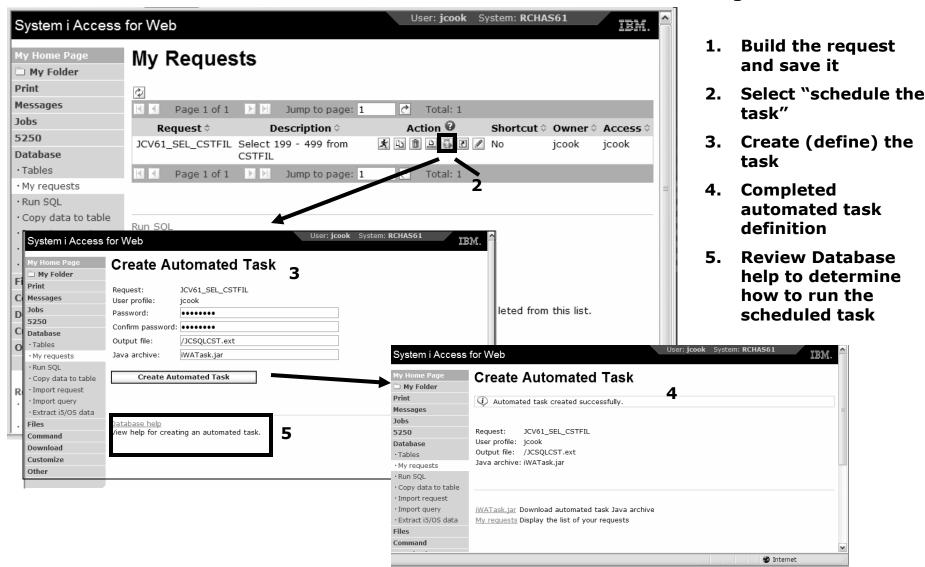


New in V6R1! Single sign-on via Windows domain login – V6R1

- WAS 6.1 provides a trust association interceptor (TAI) that uses the Simple and Protected GSS-API Negotiation Mechanism (SPNEGO) to securely negotiate and authenticate HTTP requires for secured resources in WAS.
 - This uses kerberbos authentication.
 - The SPNEGO TAI enables Windows domain login to be used when granting access to secure resources in WAS.
- When V6R1 System i Access for Web is configured in a SPNEGO TAI environment, the Windows workstation user can login to the Windows domain and have Access for Web use those credentials to authenticate to i5/OS



New in V6R1! Schedule tasks: Create automated task as a .jar file





Summary

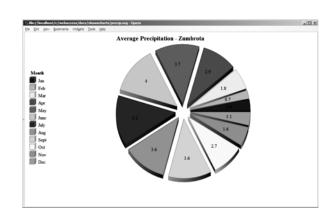




System i Access for Web V6R1 Enhancements



- Single sign-on: support authentication using Windows domain login
- Chart SQL results in bar, area, line, or pie chart
- SQL wizard supports joins of multiple tables
- Automation and scheduling of tasks
- JSR 168 Portlets



Functional enhancements can be submitted via the FITS system. The url is: http://www.ibm.com/systems/i/software/access/

And click on link "Request for Design Change"



Why use System i Access for Web? Start simple, grow fast...

- Any System i customer -- with any hardware model can quickly get started working in a Web environment
 - ► If their system is not capable to running WAS, they can easily install the ASF Tomcat web application server. ASF Tomcat runs on hardware with 70 CPW and 256 MB memory
- Any System i customer -- with little Web experience can easily get started working with e-business
 - ► System i Access for Web is simple to install and configure
 - ► No programming skills required to set it up
- Any System i customer -- without training or setup on users' desktops can extend the reach of their resources to end users
 - ► Use customize facility to set up view ('window') to System i and to control access to various i5/OS resources
 - all built around i5/OS user profiles

A great first step to get System i into ebusiness





Additional Information

- System i Access Home page:
 - http://www.ibm.com/systems/i/software/access
- System i Access for Web Home page:
 - http://www.ibm.com/systems/i/software/access/web/
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